#### **ENVIRONMENTAL CHEMISTS**

Date of Report: January 15, 1996 Date Received: January 5, 1996

Project: 3200 6th Ave S., PO #M51841

Date Samples Extracted: January 8, 1996

Date Extracts Analyzed: January 10, 1996

## RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, AND ZINC BY ICP (6010) Samples Processed Using Method 3005

Results Reported as mg/L (ppm)

Sample ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M51841	0.91	1.0	0.82	<0.05
Method Blank	<0.05	<0.05	<0.05	< 0.05

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Project: 3200 6th Ave S., PO #M51841

## QUALITY ASSURANCE RESULTS FOR CHROMIUM, COPPER, NICKEL, AND ZINC Samples Processed Using Method 3005

Laboratory Code: 65617 (Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance <u>Criteria</u>
Chromium			0.98 1.0	7	0-20 0-20
Copper Nickel Zinc	mg/L (ppm) mg/L (ppm) mg/L (ppm)	0.82	0.88 <0.05	7 nm	0-20 0-20 0-20

Laboratory Code: 65617 (Matrix Spike)

							Relative
	Reporting	Spike	Sample	% I	Recovery	Acceptance	e Percent
Analyte:	Units	Level	Result	MS	MSD	Criteria	Difference
Managarian a	TO A Ashings A			1.544			
Chromium	mg/L (ppm)	5	0.91	100	108	80-120	8
Copper	mg/L (ppm)	5	1.0	97	102	80-120	5
Nickel	mg/L (ppm)	10	0.82	100	105	80-120	5
Zinc	mg/L (ppm)	5	< 0.05	105	111	80-120	6

Laboratory Code: Spike Blank

Analyte:	Reporting Units	Spike Level	% Recover	y Acceptance Criteria
Chromium	mg/L (ppm)	5	108	80-120
Copper	mg/L (ppm)	5	100	80-120
Nickel	mg/L (ppm)	10	113	80-120
Zinc	mg/L (ppm)	5	115	80-120

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

FORMS/COC

## SAMPLE CHAIN OF CUSTODY

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SITE NO.		PROJE	CT NAME		PURCHASE ORDER #
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SAMPLER'S (signature)			* · · · · · · · · · · · · · · · · · · ·	. 2	PROJECT LOCATION  200 6th Aze 5.
REMARKS					SAMPLE DISPOSAL INFORMATION
					Dispose after 30 days Return Samples
					Call for Instructions
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### **ENVIRONMENTAL CHEMISTS**

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3012 16th Avenue West Seattle, WA 98119-2029 FAX: (206) 283-5044

January 15, 1996

### INVOICE # 96ACU0115-1 DUPLICATE COPY

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project 3200 6th Ave S., PO #M51841: Results of testing requested by Gerry Thompson, Project Manager for material submitted on January 5, 1996.

1 water sample analyzed for Chromium,	그렇게 대한 교회를 위한 것은
Copper, Nickel, and Zinc @ \$65 per sample	<u>\$ 65.00</u>
[왕으] 왕의 마양 마양(다양) [왕이다] [양기	
Amount Due	\$ 65.00

### **ENVIRONMENTAL CHEMISTS**

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3012 16th Avenue West Seattle, WA 98119-2029 FAX: (206) 283-5044

January 15, 1996

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on January 5, 1996 from your 3200 6th Ave S., PO #M51841 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Kurt Johnson

Chemist

keh

Enclosures FAX: 382-7335 ACU0115R.DOC